

# User Guide

Wi-Fi® Card by palmOne



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## Agency Compliance Information

Product regulatory and compliance information can be found in the *User Guide* file located on the product CD.

PN: 406-10062-00

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# About This Book

## [ ! ] Before You Begin





Complete the steps in the *Getting Started* guide in your Wi-Fi card package to install the Wi-Fi software and insert the card into your handheld.

This guide tells you how to set up and use your Wi-Fi® card by palmOne to connect to a range of wireless local area networks (WLAN) that use 802.11b radio communication, including encrypted and secured networks.

[ ! ] **IMPORTANT** To use the Wi-Fi card, you must have access to a home or corporate network or a service plan with a network service provider (sold separately). You must also be within range of a wireless access point.

## Viewing this guide

Here are some tips for using Acrobat Reader, to make it easier to read and find information in this guide:

- Click Zoom In  repeatedly to magnify the page size. Click Zoom Out  to return to the original view.
- Click an entry in the Table of Contents or Index to go directly to that section of the guide.
- If you link to a page in the guide, click Previous View  or  (depending on your version of Acrobat Reader) to return to the page you were on before you clicked the link.
- Click the Print icon to print pages. When selecting the page you want to print, be sure to use the file-page number shown at the bottom of your computer screen, not the page number that appears in the lower-right corner of the page. For example, to print the page you are reading right now, select page 5 (the file page), not page v.

## Sidebars

### [ ! ] Before You Begin

Tasks you must complete before you can do the steps described in the chapter.

### \* Tip

A suggestion on how to use a feature more fully; a shortcut; a pointer to a related feature.

### + Did You Know?

An interesting fact about the topic being described; may include a pointer to more information.

### » Key Term

A technical term related to the topic being described. The term may appear in this guide or only on your handheld.

### User Guide

A pointer to the web site where you can find more info on the topics in this guide and on other features of your handheld.

### My Handheld

A pointer to the web site where you can share info with other handheld users and learn the latest tips, tricks, and more.

### Support

A pointer to the web site where you can find help if you experience problems with the topics in the chapter or with your handheld.

## What's in this guide?

Each chapter contains step-by-step instructions with cues for action, links to detailed information, and sidebars.

### Step-by-step instructions

How-to information. Look for these cues in instructions:

 Continued

A cue at the bottom of a page that means the procedure continues on the next page.

 Done

A cue that signals the end of the procedure. You're done.

[ ! ] **IMPORTANT**

A step that you must follow; otherwise, you could experience an error or even lose information.

[ & ] **OPTIONAL**

A step you might find useful.

 **NOTE**

Information that applies only in certain cases or that tells more about a procedure step.

# Setting Up Wi-Fi® Network Connections

- » **Key Term**  
**Wi-Fi network**  
A wireless local area network (WLAN) based on the 802.11 standard.
- » **Key Term**  
**Wireless access point**  
A network device with an antenna that provides wireless connections to a larger network.
- » **Key Term**  
**SSID** The name that identifies a Wi-Fi network. If a network does not broadcast its SSID, you must get the SSID from the network administrator in order to connect to the network.

Your Wi-Fi® card by palmOne contains a built-in 802.11b radio that lets you connect your handheld to a Wi-Fi network (a wireless local area network). Many corporate organizations and public environments, such as your local coffee shop or library, offer access to a Wi-Fi network. Once you set up Wi-Fi network access on your handheld, you can quickly connect to it anytime you are within range of a Wi-Fi access point.

A Wi-Fi network may be encrypted (secured) or nonencrypted, and it may or may not broadcast its name, or SSID. When you begin Wi-Fi setup, your handheld automatically displays networks within range that are broadcasting their SSID. Follow the instructions in this chapter for the type of network you want to set up.

**[ ! ] IMPORTANT** If your handheld has Bluetooth® technology installed, you must turn it off to use the Wi-Fi card. Be sure the Wi-Fi card is seated in the expansion card slot before you set up or connect to a Wi-Fi network.



## Inserting the Wi-Fi card

[ ! ] **Before You Begin**  
Complete the steps in the *Getting Started* guide in your Wi-Fi card package to install the Wi-Fi software on your handheld. Your handheld must have at least 4 MB of free memory to install the Wi-Fi software.

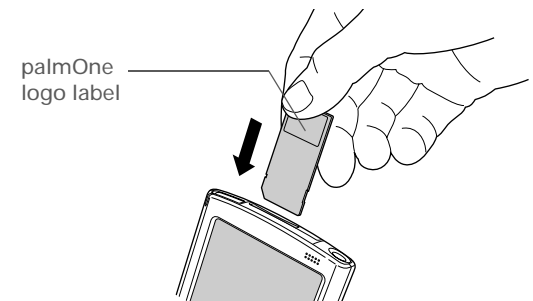
\* **Tip**  
You can conserve battery power by removing the Wi-Fi card or turning off Wi-Fi when you are not planning on using it for an extended period.

\* **Tip**  
No confirmation tone when you insert the card? In Preferences, go to Sounds & Alerts and turn on the System Sound.

[ ! ] **IMPORTANT** Make sure that Bluetooth is off before inserting the Wi-Fi card. See the *Getting Started* guide for instructions.

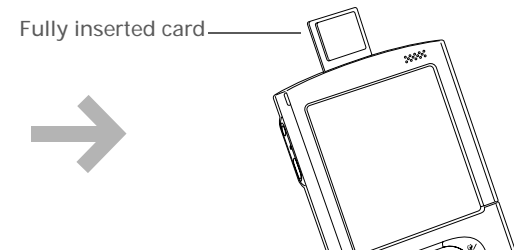
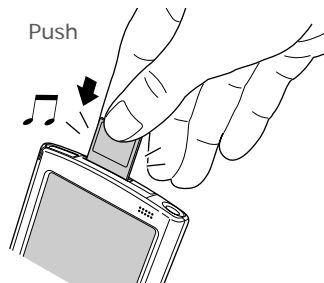
1

Insert the card into the expansion slot with the palmOne logo label facing the front of the handheld.



2

Push the card in until you hear the confirmation tone. The top of the card extends from the slot when the card is fully inserted.



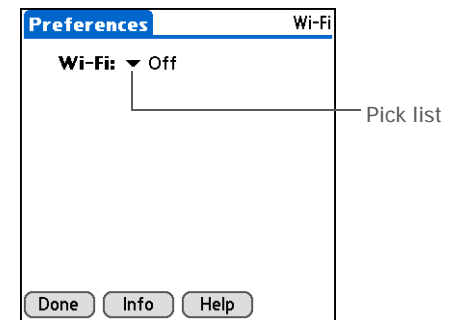
➤ Continued

3

Go to the Home  screen and select Prefs , and then select Wi-Fi.

4

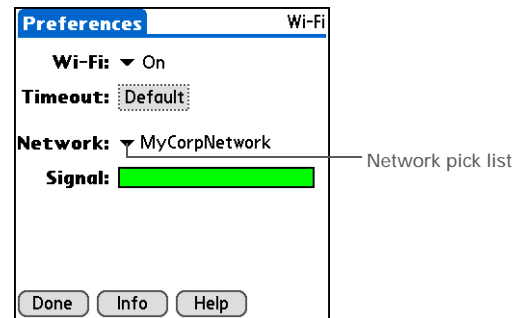
Tap the Wi-Fi pick list and select On. The Wi-Fi card searches for available networks that publish their network name and tries to connect to one of them. This may take a few moments.



5

To connect to a different network, select it from the network pick list. If the network you want does not appear in the list, you need to set it up on your handheld. Follow the instructions in this chapter for the type of network you want to set up.

↓ Done



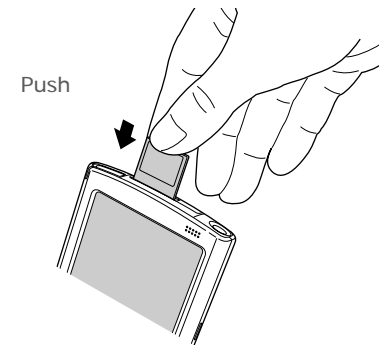
## Removing the Wi-Fi card

Wi-Fi turns off automatically when you remove the Wi-Fi card from the expansion slot.

\* **Tip**  
Looking for a handy way to carry your expansion cards? You can purchase a variety of carrying cases. Visit [www.palmOne.com](http://www.palmOne.com) and look for the Accessories link for your handheld.

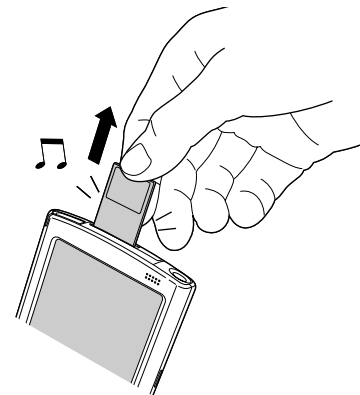
**1**

Push lightly against the card with your thumb.

**2**

Slide the card out of the expansion slot.

⏏ Done



## Setting up a nonencrypted network connection

1

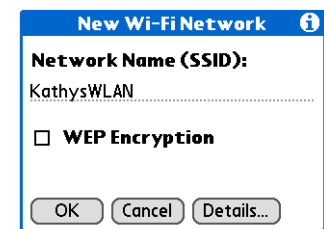
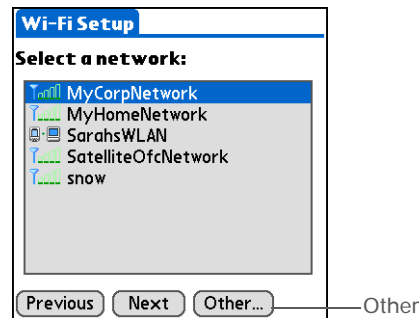
Go to the Home screen  and select Wi-Fi Setup .

2

Select the network you want to connect to:

- Tap Next. Select from the list of available networks, and tap Next again.
- If the network does not appear in the list, tap Other and enter the network name (SSID). Then select OK.

**NOTE** If you select a network that is not available, your handheld tries to connect to any available network.



- Select Done

↓ Done

## Setting up a WEP-encrypted network connection

### [ ! ] Before You Begin

Make sure you get the following information from your network administrator:

- WEP key(s), key type, and key index (if needed)

OR

- WEP passphrase

### \* Tip




If you are adding WEP encryption to a network that you have already set up, see [Editing Wi-Fi network settings](#).

### » Key Term

WEP Stands for “wired equivalent privacy.” WEP is a standard encryption method used to improve security for Wi-Fi network connections.

Follow these steps to set up a Wi-Fi network with WEP key encryption. For corporate networks, check with your network administrator to get the required settings. For home networks, use the same WEP key settings for your handheld that you used to set up WEP on your network access point.

A WEP key can be ASCII text, a hexadecimal number, or a passphrase. If you are given a passphrase and have problems, ask your IT administrator for the hex equivalent and use it instead of the passphrase. If you use an Apple Airport Base Station, refer to the Airport Admin Utility for the equivalent network password.

1	Go to the Home  screen and select Wi-Fi Setup  .
2	Tap Next and then Other.
3	<p>Enter the network information:</p> <ol style="list-style-type: none"> <li>Enter the network name (SSID).</li> <li>Select the WEP Encryption check box.</li> <li>Tap the WEP Key box.</li> </ol> <p></p> <p>➤ Continued</p>

## \* Tip

WEP key encryption ranges from 40-bit to 128-bit. 40-bit keys are commonly called 64-bit, and 104-bit keys are commonly called 128-bit because the other 24 bits are automatically assigned.

4

Tap the Key Type pick list and select the network's WEP key type:

**40-bit hex** Key format is a 10-digit hexadecimal number.

**40-bit ASCII** Key format is a five-character string.

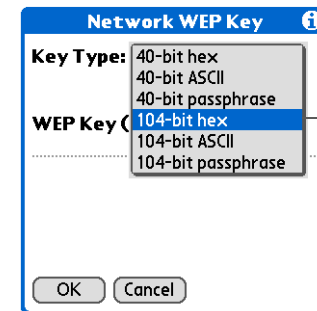
**40-bit passphrase** Key format is a variable-length string.

**104-bit hex** Key format is a 26-digit hexadecimal number.

**104-bit ASCII** Key format is a 13-character string.

**104-bit passphrase** Key format is a variable-length string.

➤ Continued

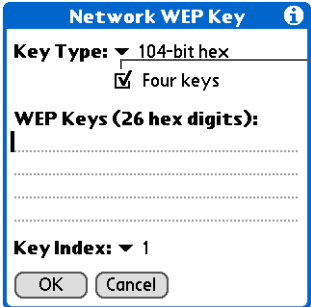


Key type  
pick list

5

If your network requires four keys, select the Four keys check box to enter four keys or generate four keys from a passphrase.

If you don't select the Four keys check box, you enter only one key.

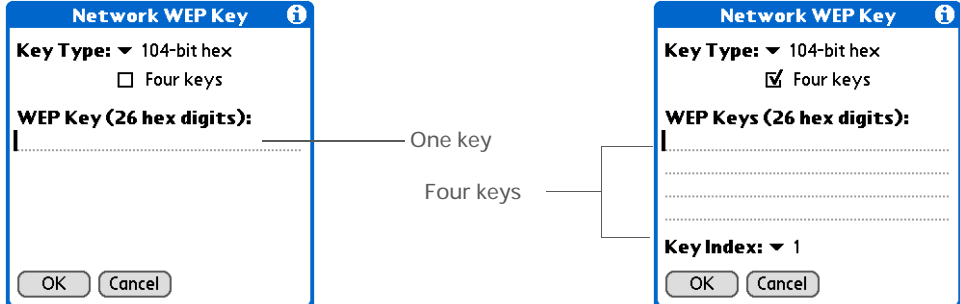


The dialog box is titled "Network WEP Key" with an information icon. It has a "Key Type:" dropdown set to "104-bit hex". Below it, the "Four keys" checkbox is checked. The "WEP Keys (26 hex digits):" field is empty. At the bottom, "Key Index:" is set to "1". "OK" and "Cancel" buttons are at the bottom.

Four keys check box

6

Enter the WEP key. If the Four keys check box is selected, you enter four keys.



Two dialog boxes are shown side-by-side. The left dialog box has "Four keys" unchecked, and its "WEP Key (26 hex digits):" field is labeled "One key". The right dialog box has "Four keys" checked, and its "WEP Keys (26 hex digits):" field is labeled "Four keys". Both dialog boxes have "Key Type:" set to "104-bit hex", "Key Index:" set to "1", and "OK" and "Cancel" buttons.

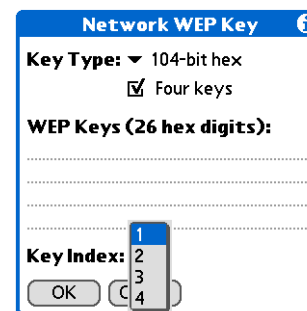
One key

Four keys

➤ Continued

7

If you selected the Four keys check box, tap the Key Index pick list and select an index number.



8

Select OK. Then tap Next and select Done.

↓ Done






## Connecting to a network

\* Tip

You can view the Wi-Fi signal strength on the Command toolbar by drawing the Command stroke. The Wi-Fi signal strength indicator appears at the far right of the command bar. If VPN is enabled, a lock icon appears next to the signal strength indicator.

Once you have set up a network connection, you can access that network anytime you are within range of a Wi-Fi access point on the network, or for a peer-to-peer connection, within range of the peer Wi-Fi device.

1	Go to the Home  screen and select Wi-Fi Setup  .
2	<p>Tap Next. Then select from the list of available networks and tap Next again.</p> 
↓ Done	The handheld connects to the network.

# Synchronizing Using a Wi-Fi® Connection

## [ ! ] Before You Begin

Make sure the computer you want to synchronize with has the following:

- Windows OS.
- Palm® Desktop software with HotSync® Manager turned on.
- TCP/IP support.
- Access to a broadband network, such as a company network or DSL.

Need to synchronize but can't get back to the office? Once you set up the Wi-Fi® network connection and prepare your computer, you can synchronize your handheld anytime your PC is turned on and accessible via a network, and you are within range of a Wi-Fi access point.


[ ! ] **IMPORTANT** The *first* time you synchronize your handheld, you must use a local, direct connection, or infrared or Bluetooth® communication, rather than a modem or network. Refer to your handheld *User Guide* for instructions.

**NOTE** If your home or corporate network is secured by VPN (virtual private network), you need to set up a VPN account on the handheld before you can synchronize using a Wi-Fi connection. See [Using a VPN Account](#).

## Preparing your computer

Before you can synchronize wirelessly, you need to set up your Windows network computer for network synchronizing.

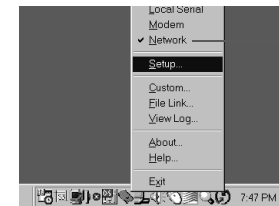
1

Click the HotSync Manager icon  in the lower-right corner of the Windows task bar.

2

From the HotSync Manager menu, select Network if it is not already selected.

➤ Continued



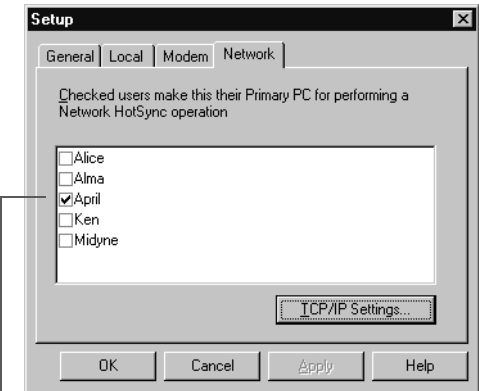
Network is selected

3

Set up your username:

- a. From the HotSync Manager menu, select Setup.
- b. Click the Network tab and select your username if it is not already selected.

**NOTE** If your username does not appear, you need to add it to your computer by synchronizing your handheld using a local, direct connection (cable/cradle), or infrared or Bluetooth® communication. See your handheld *User Guide* for instructions.



Checkmark indicates  
name is selected

4

Click OK.

↓ Done

## Preparing your handheld

Follow these steps the first time you synchronize wirelessly to set up your network connection on your handheld.

### [ ! ] Before You Begin


Get the following information from your network administrator:

- Network name assigned to your computer.

OR

- Network IP address assigned to your computer.

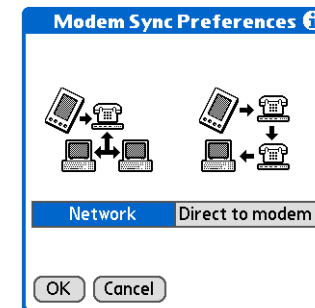
1

Go to the Home  screen and select HotSync .

2

Select Network in the Modem Sync Preferences dialog box:

- Open the menus.
- Select Modem Sync Prefs on the Options menu.
- Tap Network.
- Select OK.

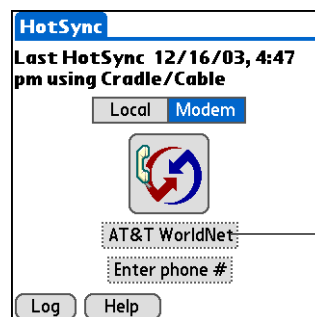


➤ Continued

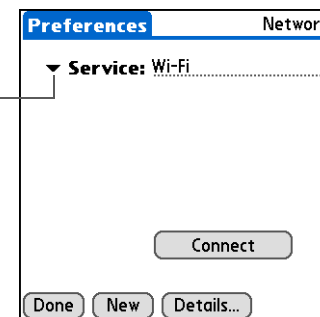
## 3

Select the service for your Wi-Fi network:

- a. Tap Modem.
- b. Tap the service box.
- c. Tap the Service pick list and select Wi-Fi.
- d. Select Done.



Service box



Continued

## 4

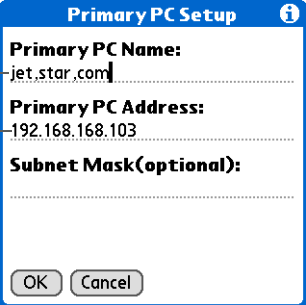
Verify the information about your computer is correct:

- a. Open the menus.
- b. Select Primary PC Setup on the Options menu.
- c. Verify that the name and IP address for your computer is correct. Edit the information if necessary.
- d. Select OK.

↓ Done

Your PC's  
network name

Your PC's network  
IP address





The image shows a 'Primary PC Setup' dialog box with a blue header and an information icon. It contains three text input fields: 'Primary PC Name:' with the text 'jet.star.com', 'Primary PC Address:' with the text '192.168.168.103', and 'Subnet Mask(optional):'. At the bottom are 'OK' and 'Cancel' buttons. Two lines with labels point to the first two fields: 'Your PC's network name' points to the name field, and 'Your PC's network IP address' points to the address field.

Primary PC Setup	
Primary PC Name:	jet.star.com
Primary PC Address:	192.168.168.103
Subnet Mask(optional):	
OK Cancel	

## Synchronizing your handheld using a Wi-Fi connection

After you prepare your computer and handheld for wireless network synchronization, you can synchronize the handheld from any Wi-Fi access point.

1

Go to the Home  screen, and tap HotSync .

**[ ! ] IMPORTANT** Make sure your computer is on before synchronizing wirelessly.

2

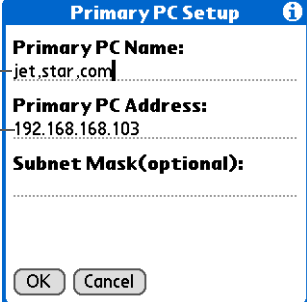
**[ & ] OPTIONAL** If you are synchronizing to a different computer than you previously used for synchronization, enter information about the computer:

- Open the menus.
- Select Primary PC Setup on the Options menu.
- Enter the computer's name or IP address.
- Select OK.

➤ Continued

Your PC's  
network name

Your PC's network  
IP address



The image shows a screenshot of the 'Primary PC Setup' dialog box. It has a blue header with the title 'Primary PC Setup' and an information icon. Below the header, there are three fields: 'Primary PC Name:' with the text 'jet.star.com' entered, 'Primary PC Address:' with the text '192.168.168.103' entered, and 'Subnet Mask(optional):' which is empty. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

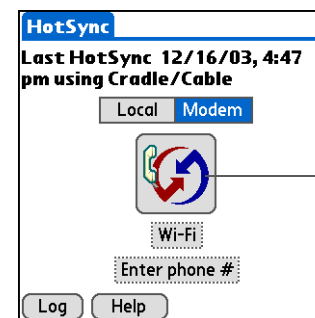


3

Tap Modem, and then tap the HotSync icon.

**NOTE** The Enter phone # field is not used for Wi-Fi connections.

↓ Done



# Using a VPN Account

## » Key Term

VPN (virtual private network) is a secure authentication service that uses methods such as Point-to-Point Tunneling Protocol (PPTP) to allow you to go through your company's firewall (security layer) and access the company's internal network. The VPN software included with your Wi-Fi® card requires access to a VPN server running the PPTP protocol.

Many private networks, such as home or corporate LANs, are secured virtual private networks (VPN). If your corporate network is a VPN, you need to use a VPN account to access your corporate e-mail account or synchronize your handheld with your office PC.

To use a VPN account for Wi-Fi® network connections, you must first set up the account on your handheld. Follow the instructions in this chapter to set up or edit VPN account information, switch between VPN accounts, or disable VPN on your handheld. When VPN is enabled in Preferences, the handheld uses the selected VPN account for all your network connections.

**[ ! ] IMPORTANT** Check with your network administrator to find out if your corporate network requires the use of a VPN account and to get setup information.

### [ ! ] Before You Begin

To set up VPN on the handheld, you need the following information from your network administrator:

- Your VPN username
- Your VPN password
- The VPN server name or address

Also, ask your administrator about the following:

- Is encryption required for VPN data?
- Should all TCP/IP data be sent to the VPN server?
- Is a static DNS address or IP address required?

## Setting up a VPN account

Before you can use VPN for Wi-Fi® network connections, you need to set up a VPN account on the handheld. The handheld uses this VPN account for all future Wi-Fi network connections as long as VPN is enabled in Preferences.

1

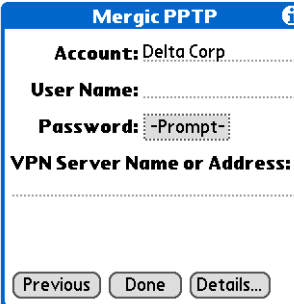
Go to the Home  screen and select VPN Setup . Then tap Next.

2

Set up the VPN account:

a. Enter a name for the account.

➤ Continued



**Mergic PPTP** ⓘ

**Account:** Delta Corp

**User Name:** .....

**Password:** -Prompt-

**VPN Server Name or Address:** .....

Previous Done Details...

Cont'd.

- b. Enter your VPN username.
- c. Tap the Password box and enter your VPN password.
- d. Select OK.

**Mergic PPTP**

Account: Delta Corp

User Name: Jane

Password: -Prompt-

VPN Server Name or Address:

Previous Done Details...

**Password**

Enter a password:  
starlight

If you do not assign a password, you will be asked for one when you sign in.

OK Cancel

- e. Enter the VPN server name or IP address.

**Mergic PPTP**

Account: DeltaCorp

User Name: Jane

Password: -Assigned-

VPN Server Name or Address:  
vpnservr.deltacorp.com

OK Cancel Details...

➤ Continued

## 3

**[ & ] OPTIONAL** Change VPN options if required by your VPN administrator.

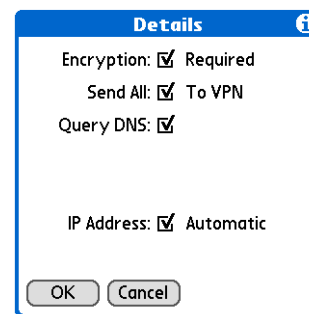
- a. Tap Details.
- b. Tap to select or deselect the following options:

**Encryption: Required** When selected, all VPN data is encrypted. Deselect the check box if your VPN server does not encrypt data.

**Send All: To VPN** When selected, all TCP/IP data goes to the private network. Deselect if you want only DNS requests and TCP/IP data specifically destined for the private network to be sent there.

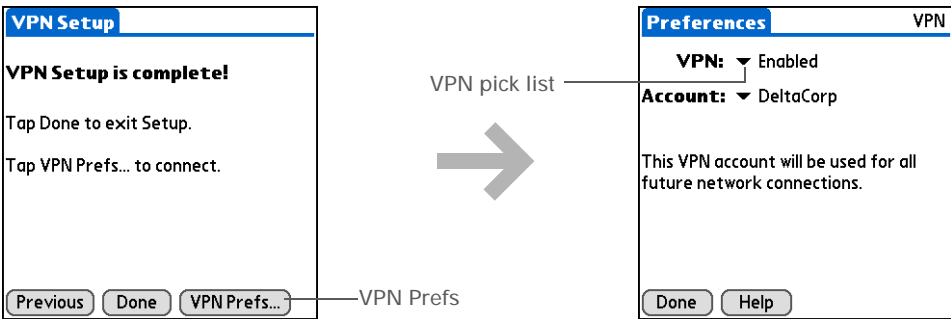
**Query DNS** When selected, the handheld gets the domain server name from the VPN server. Deselect the check box if you need to enter a static DNS address.

**IP Address: Automatic** When selected, the handheld gets the IP address from the private LAN. Deselect the check box if you need to enter a static IP address.



➤ Continued

\* **Tip**  
You can check your VPN connection. Draw the Command stroke to display the Command toolbar and verify that a lock icon appears in the Wi-Fi signal strength indicator at the far right of the toolbar.

4	Select Done.
5	<p>Enable the VPN account:</p> <ol style="list-style-type: none"><li>Tap VPN Prefs.</li><li>Tap The VPN pick list and select Enabled.</li><li>Select Done.</li></ol> <div><p>The diagram illustrates the steps to enable a VPN account. It shows two screens: 'VPN Setup' and 'Preferences' (VPN). In the 'VPN Setup' screen, the text says 'VPN Setup is complete!' and 'Tap Done to exit Setup.' and 'Tap VPN Prefs... to connect.' There are three buttons at the bottom: 'Previous', 'Done', and 'VPN Prefs...'. An arrow points from the 'VPN Prefs...' button to the 'Preferences' screen. In the 'Preferences' screen, the 'VPN' pick list is set to 'Enabled' and the account is 'DeltaCorp'. There are 'Done' and 'Help' buttons at the bottom.</p></div>
↓ Done	That's it. Your VPN service is enabled and active.

## Switching between VPN accounts

If you have set up multiple VPN accounts, you can easily switch from one to the other.

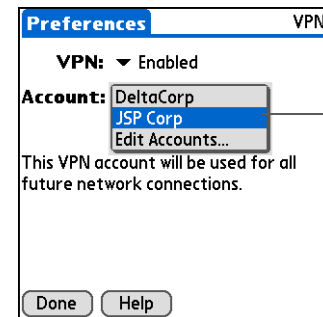
1

Go to the Home  screen and select Prefs , and then select VPN.

2

Select the VPN account:

- If VPN is disabled, tap the VPN pick list and select Enabled.
- Select the account from the Account pick list.
- Select Done.



Account pick list

↓ Done

The selected VPN service is enabled and is used for future connections.

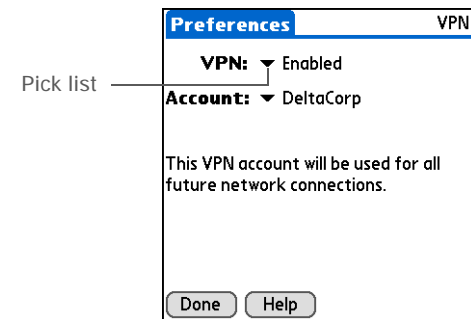
## Editing a VPN account

1

Go to the Home  screen and select Prefs , and then select VPN.

2

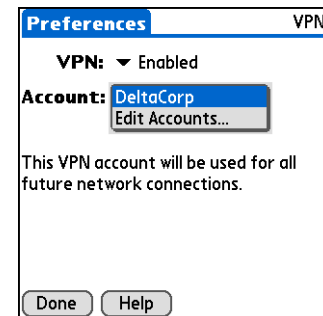
Tap the VPN pick list and select Enabled.



3

Tap the Account box and select Edit Accounts.

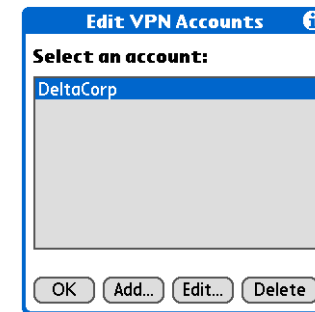
➤ Continued





4

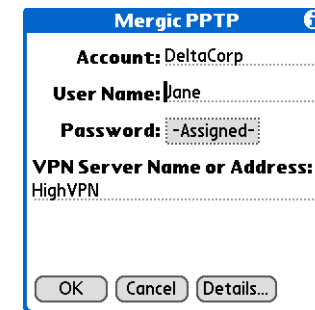
Select the account and tap Edit.



5

Follow the instructions to edit the account name, username, password, or VPN server name or address.

When you are finished editing information, select Done.



Tap to display instructions.

↓ Done

Your VPN service is enabled. The new account settings are used for all future connections using this VPN account.

## Disabling and enabling VPN

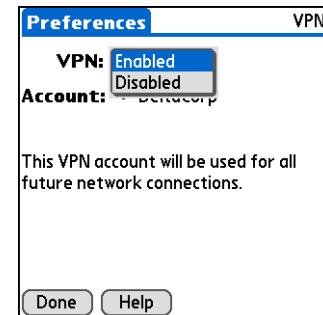
You can disable VPN whenever you don't want to use your VPN account for network connections. For example, you may find it faster to browse the public internet without connecting through your VPN account and private LAN. Or you may need to disable VPN in order to send personal e-mail if this activity is not permitted by your private LAN security.

1

Go to the Home  screen and select Prefs , and then select VPN.

2

Tap the VPN pick list and select Disabled (or Enabled). Then select Done.



Done

VPN service is disabled (or enabled) for future connections.



# Managing Wi-Fi® Network Connections

This chapter provides instructions for conserving battery power, checking Wi-Fi® signal strength, and viewing or editing your Wi-Fi network connection settings.

## Turning Wi-Fi on or off


You may want to turn Wi-Fi off if you are not planning on using it for an extended period of time, but want to leave the card in the expansion slot. As long as Wi-Fi is turned on, the Wi-Fi card uses a small amount of power even when you are not connected to a network. Wi-Fi turns off automatically when you remove the card from the expansion slot.

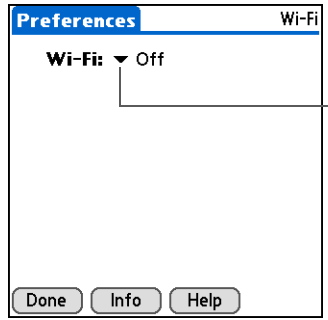
1

Go to the Home  screen and select Prefs , and then select Wi-Fi.

2

Tap the Wi-Fi pick list and select Off or On.

 Done





Pick list

## Viewing signal strength

You can monitor the strength of your Wi-Fi signal when you are connected to a network. If the signal is weak, expect the connection to be unreliable.

1

Go to the Home  screen and select Prefs .

2

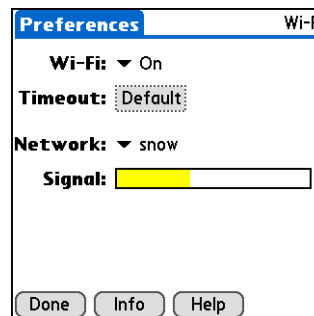
Tap Wi-Fi.

A status bar shows the signal strength for the selected network.

**Red** Indicates a weak signal.

**Yellow** Indicates a medium-strength signal.

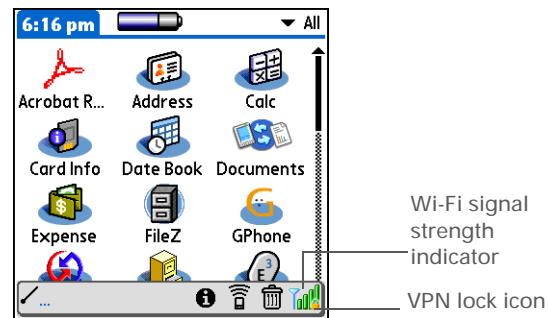
**Green** Indicates a very strong signal.



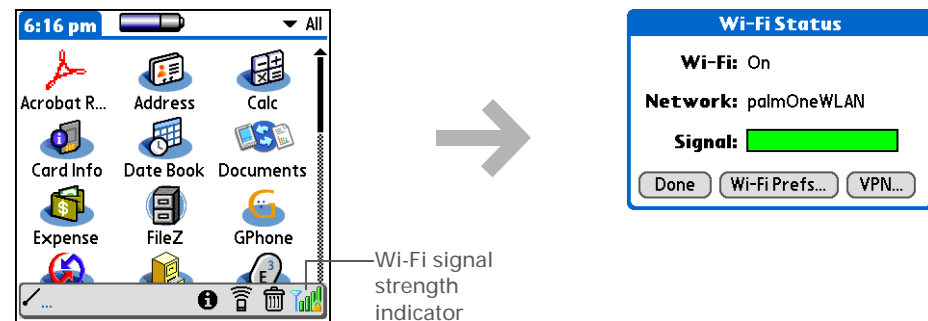
➤ Continued

Cont'd.

You can also view Wi-Fi signal strength on the Command toolbar by drawing the Command stroke. If VPN is enabled, a lock icon appears next to the Wi-Fi signal strength indicator.



Tap the Wi-Fi signal strength indicator in the Command toolbar to display Wi-Fi status. You can also display the preference settings for Wi-Fi or VPN, by tapping the Wi-Fi Prefs or VPN buttons.



↓ Done

## Viewing Wi-Fi connection information

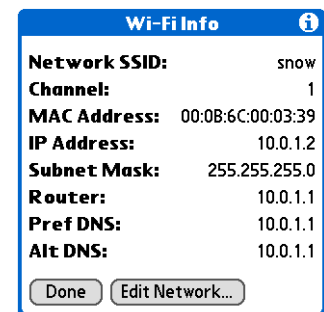
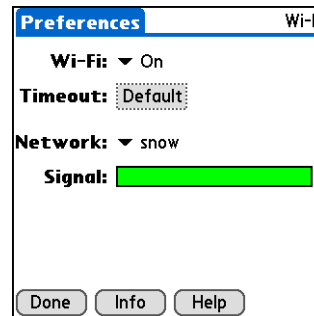
You may need to view connection information in order to provide your IT administrator with your MAC (media access control) address or other information.

1

Go to the Home  screen and select Prefs , and then select Wi-Fi.

2

Tap Info.



↓ Done

## Conserving battery power

You can extend the battery power by turning on the Conserve Power option and restricting roaming. When the Conserve Power option is off, the Wi-Fi card uses full power to roam continuously and search for closer access points. This can improve Wi-Fi performance, but shortens battery life.

1

Go to the Home  screen and select Prefs , and then select Wi-Fi.

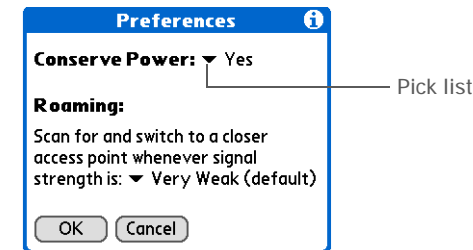
2

Open the menus. Then, select Preferences on the Options menu.

3

Tap the Conserve Power pick list and select Yes.

➤ Continued



4

Tap the Roaming pick list and select a setting.

**Very Weak** Begins roaming only when the signal is very weak. This setting is most conserving of battery power.

**Weak** Begins roaming when the signal is weak.

**Moderate** Begins roaming when the signal is moderate.



5

Select OK.



Done



## Changing the timeout period

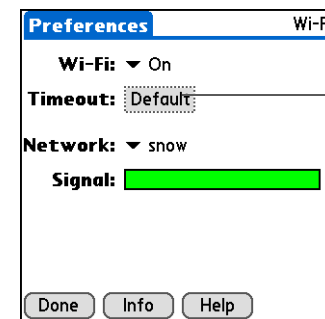
You can control how long the handheld remains connected to a Wi-Fi network when it is not receiving a signal. By default, the handheld remains connected for three minutes or until the display powers off.

1

Go to the Home  screen and select Prefs , and then select Wi-Fi.

2

Tap the Timeout box.

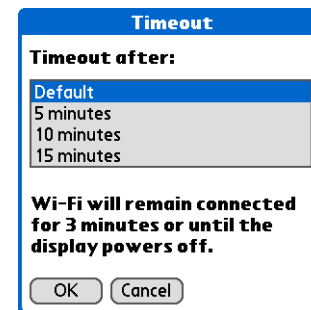


Timeout box

3

Select a timeout setting and select OK.

↓ Done



## Setting up a peer-to-peer (ad hoc) network connection

### [ ! ] Before You Begin

If you are joining an existing peer-to-peer network, you need to know the network SSID.

If you are initiating a peer-to-peer network, simply make up your own network SSID and tell the others who will be joining your network.

» **Key Term**  
Peer-to-peer (ad hoc) network Two or more computers or devices that communicate directly with each other using Wi-Fi, without going through a wireless access point or a wired network.

You can connect your handheld directly to another Wi-Fi device, such as a laptop computer or another handheld. The devices automatically negotiate a communications channel and IP addresses, so you don't need to enter this information unless you want to use a specific channel or IP address.

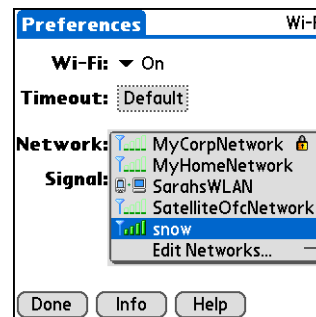
1

Go to the Home  screen and select Prefs , and then select Wi-Fi.

2

Select the network you want to connect to:

a. Tap the Network pick list and select Edit Networks.



Edit Networks



➤ Continued

Cont'd.

- b. Select the network and tap Edit. If the network does not appear in the list, tap Add and enter the network name (SSID).

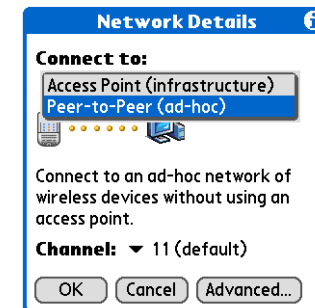


3

Set up the network connection:

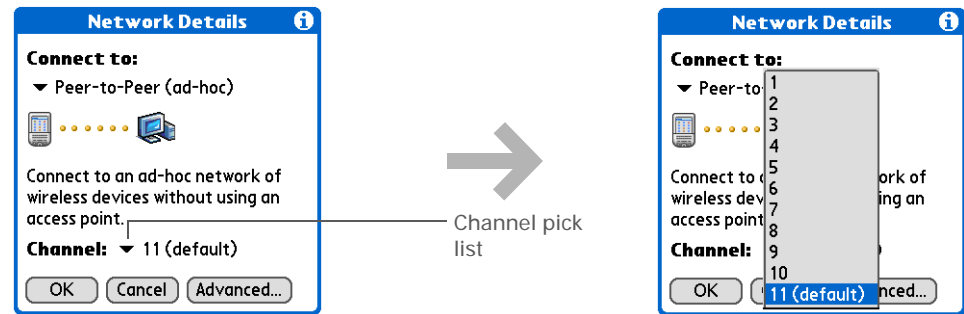
- a. Tap Details.
- b. Tap the connection type pick list and select Peer-to-Peer (ad-hoc).

➤ Continued



4

**[ & ] OPTIONAL** To use a specific communications channel, tap the Channel pick list and select the channel number.

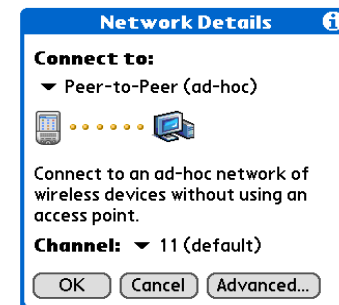


5

**[ & ] OPTIONAL** To manually set your IP or DNS address, follow these steps:

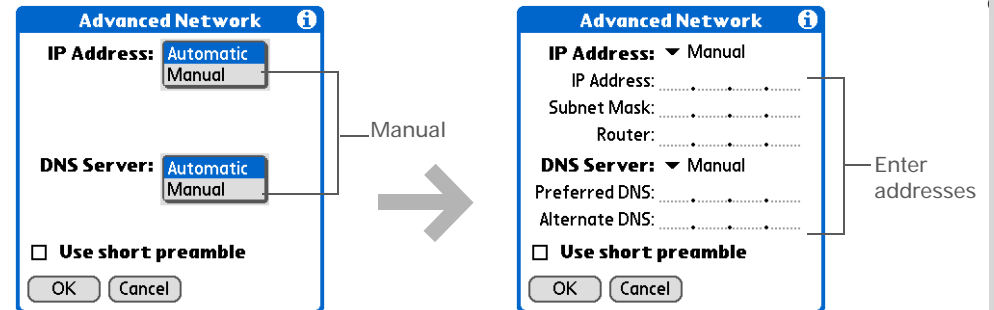
a. Tap Advanced.

➤ Continued



Cont'd.

- b. Select Manual from the IP Address or DNS Server pick list.
- c. Enter the address.
- d. If you want to use a short preamble, select the Use short preamble check box.



6

Select OK.

↓ Done

## Editing Wi-Fi network settings

Once you set up a network on the handheld, you can change the settings at any time. For example, you can change the network name, add or edit WEP encryption settings, or change the IP or DNS address.

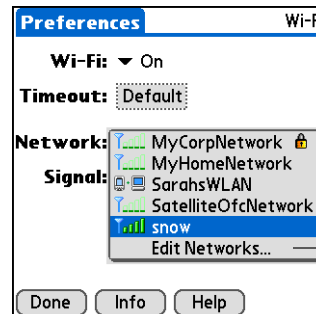
1

Go to the Home  screen and select Prefs , and then select Wi-Fi.

2

Select the network:

- Tap the Network pick list and select Edit Networks.
- Select the network in the list, and then tap Edit.



➤ Continued

3

To change the network name, edit the current name.



**New Wi-Fi Network** ⓘ

**Network Name (SSID):**  
CorpWLAN

☒ **WEP Encryption**

**WEP Key:** -Unassigned-


OK Cancel Details...

4

To add or edit WEP encryption settings:

- Select the WEP Encryption check box.
- Tap the WEP Key box.

➤ Continued



**New Wi-Fi Network** ⓘ

**Network Name (SSID):**  
CorpWLAN

☒ **WEP Encryption**

**WEP Key:** -Unassigned-

OK Cancel Details...

WEP Key box

Cont'd.

c. Tap the Key Type pick list and select a WEP key type:

**40-bit hex** Key format is a 10-digit hexadecimal number.

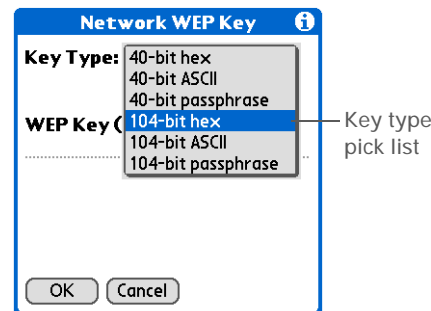
**40-bit ASCII** Key format is a five-character string.

**40-bit passphrase** Key format is a variable-length string.

**104-bit hex** Key format is a 26-digit hexadecimal number.

**104-bit ASCII** Key format is a 13-character string.

**104-bit passphrase** Key format is a variable-length string.

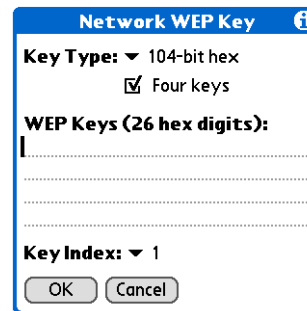


➤ Continued



Cont'd.

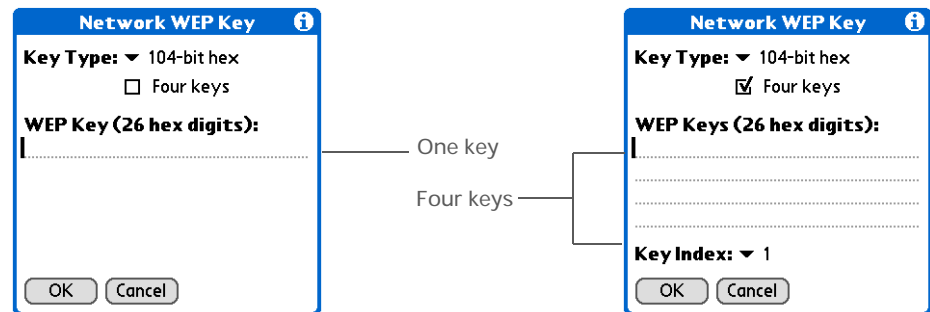
- d. Select the Four keys check box to enter four keys or to generate four keys from a passphrase. If you don't select the Four keys check box, you enter only key.



The dialog box is titled "Network WEP Key" with an information icon. It contains the following fields and controls:

- Key Type:** A dropdown menu set to "104-bit hex".
- Four keys:** A checked checkbox.
- WEP Keys (26 hex digits):** A text input field with a cursor at the beginning.
- Key Index:** A dropdown menu set to "1".
- Buttons:** "OK" and "Cancel" buttons at the bottom.

- e. Enter the WEP key. If the Four keys check box is selected, you enter four keys.

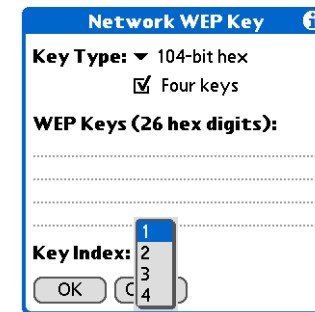


The diagram shows two "Network WEP Key" dialog boxes. The left dialog box has the "Four keys" checkbox unchecked. An arrow labeled "One key" points from its "WEP Key (26 hex digits)" field to the first field of the right dialog box. The right dialog box has the "Four keys" checkbox checked. An arrow labeled "Four keys" points from the "WEP Key (26 hex digits)" field of the left dialog box to the first field of the right dialog box. Both dialog boxes have the "Key Type" set to "104-bit hex" and "Key Index" set to "1".

➤ Continued

Cont'd.

- f. Tap the Key Index pick list and select an index number if you selected the four keys check box.
- g. Select OK.

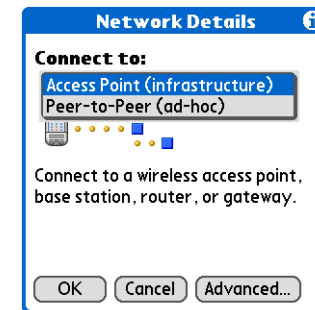


5

To change the IP or DNS settings:

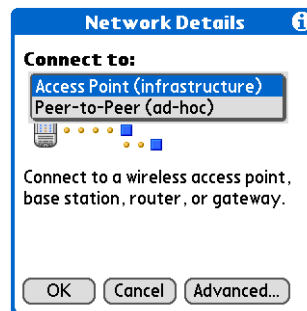
- a. Tap Details.
- b. Select the access point.

➤ Continued

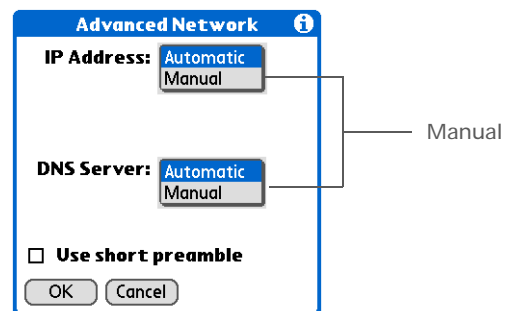


Cont'd.

c. Tap Advanced.



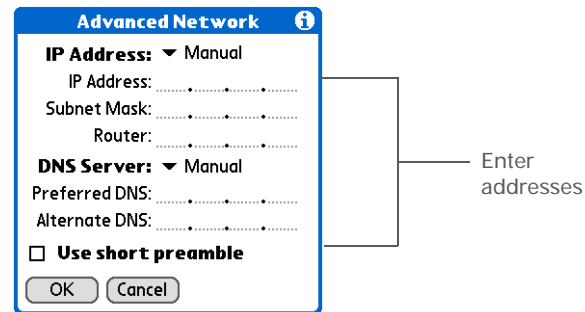
d. Tap the IP address or DNS server address and select Manual.



➤ Continued

Cont'd.

e. Add the addresses and select OK.



f. If you need to use a short preamble, select the Use short preamble check box.

6

Select OK until you return to the Wi-Fi Preferences screen, and then select Done.

 Done

# Common Questions

If you have a problem with your Wi-Fi® card by palmOne, review the questions in this section and the following resources:

- This guide
- The *Wi-Fi Card by palmOne Getting Started Guide* that came with your Wi-Fi card

If you are still having problems, contact technical support by going to [www.palmOne.com/support](http://www.palmOne.com/support).

## Why can't I make a wireless connection?

- Your handheld is designed to connect to a wireless access point. Consult your wireless access point manual and the manufacturer web site for troubleshooting information regarding your wireless access point.
- Most corporate networks have security policies that require special setup procedures. Contact your IT administrator for information.

## Why can't I make a wireless connection when traveling internationally?

Your Wi-Fi card operates in the Industry Scientific and Medical (ISM) band and supports channels 1 through 11. In countries where channels 12 through 14 are also used, you may encounter access points using these channels and be unable to make a wireless connection. For information on which channels are supported in other countries, see [Wi-Fi® Frequencies](#).

### Why doesn't the VPN included with my handheld work with my corporate network?

The palmOne™ VPN client is based on the PPTP protocol. Third-party software solutions are available if your corporation requires an IPSec client. See [www.palmOne.com/support](http://www.palmOne.com/support) for links to and information about other VPN solutions.

### Why can't I synchronize my handheld wirelessly?

- Check the signal status to make sure you are connected to your wireless network. See [Viewing signal strength](#).
- Make sure the PC selected for Network HotSync is your PC. See [Preparing your handheld](#).



### Contacting Technical Support

If you cannot solve your problem, go to [www.palmOne.com/support](http://www.palmOne.com/support) or send an e-mail message to your regional Technical Support office.

Before requesting support, experiment a bit to reproduce and isolate the problem. When you do contact support, please be ready to provide the following information:

- The name and version of the operating system you are using
- The actual error message or state you are experiencing
- The steps you take to reproduce the problem
- The version of handheld software you are using and available memory

To find your handheld version and memory information:

1. Press Home .
2. Use the Graffiti® 2 Command stroke and tap .
3. Tap Version to see version numbers, and tap Size to see the amount of free memory in kilobytes.

# Wi-Fi® Frequencies

» **Key Term**  
**ISM (Industry Scientific and Medical) band** An internationally recognized band for radio LANs that operates in the 2.4 GHz range. There are 14 allocated channels within this band. The Wi-Fi card by palmOne supports channels 1 through 11.

Your Wi-Fi® card by palmOne operates in the Industry Scientific and Medical (ISM) band and supports channels 1 through 11. If you travel to countries that support additional channels, there is a possibility that you will not be able to connect to an access point.

The following list identifies the channels available in various countries:

Channel ID	Frequency (MHz)	USA FCC	Canada IC	Europe/ Asia Pacific ETSI	France	Japan MKK	Wi-Fi card by palmOne
1	2412	+	+	+	+	+	+
2	2417	+	+	+	+	+	+
3	2422	+	+	+	+	+	+
4	2427	+	+	+	+	+	+
5	2432	+	+	+	+	+	+
6	2437	+	+	+	+	+	+



Channel ID	Frequency (MHz)	USA FCC	Canada IC	Europe/Asia Pacific ETSI	France	Japan MKK	Wi-Fi card by palmOne
7	2442	+	+	+	+	+	+
8	2447	+	+	+	+	+	+
9	2452	+	+	+	+	+	+
10	2457	+	+	+	+	+	+
11	2462	+	+	+	+	+	+
12	2467			+	+	+	
13	2472			+	+	+	
14	2484					+	

# Product Regulatory Information

## FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices. Failure to do so may violate FCC rules.

**[ ! ] IMPORTANT** Changes or modifications not covered in this manual must be approved in writing by the manufacturer's Regulatory Engineering Department. Changes or modifications made without written approval may void the user's authority to operate this equipment.

Responsible Party:

palmOne, Inc.  
400 N. McCarthy Blvd.  
Milpitas, California 95035  
United States of America  
(408) 503-7500

Wi-Fi® card by palmOne



Tested to Comply  
With FCC Standards

FOR HOME OR OFFICE USE

## Canadian ICES-003 Statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.



## CE Compliance Statement

This product was tested by palmOne, Inc. and found to comply with all the requirements of the EMC Directive 89/336/EEC as amended.

## Declaration of Conformity

**palmOne, Inc., Declares the Product:** Wi-Fi® card by palmOne

**Model Name/Number:** WLAN6065SD

**Manufacturer's Name:** palmOne

**Manufacturer's Address:** 400 N. McCarthy Blvd.  
Milpitas, 95035-5112

Conforms with the following specifications:

- EN 55024: 1998 (Emissions & Immunity)
- EN55022:1998, CISPR 22 1997, Class B Radiated and Conducted Emissions
- IEC 61000-4-2, A1 1998-01, ESD Immunity, 4kV Contact, and 8kV Air Discharge
- IEC 61000-4-3: 1995 RF Immunity, 80-1000MHz, 3V/M, 1kHz, 80% A.M.
- ENV 50204:1996, RF Immunity, 895-905MHz, 3V/m, 200Hz, 50% AM
- IEC 61000-4-4: 1995 EFT Immunity, 1kV on AC port, 5/50nSec, 5kHs Rep. Freq.
- IEC 61000-4-5: 1995 Surge Immunity, 1.2/50uSec, 2kV(peak), Common Mode, 1kV(peak) Differential Mode

- EN61000-4-6:1996, Conducted Immunity, 150kHz-80MHz, 3V RMS, 1kHz, 80% AM
- IEC 61000-4-11: 1994, 100% Voltage Dip 0.5 period, 30% Dip 25 periods and >100% Dip 250 periods

Authorized palmOne Representative: David Woo  
Manager, palmOne, Inc., World Wide Compliance

Date: February 4, 2004

## Restrictions in use of card in EU countries



<b>Danish</b>	Undertegnede Graviton, Inc. erklærer herved, at følgende udstyr Wideband Transmission System Radio overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
<b>Dutch</b>	<p>Hierbij verklaart Graviton, Inc. dat het toestel [Wideband Transmission System Radio in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.</p> <p>Bij deze verklaart [Naam van de fabrikant] dat deze [naam /type van het apparaat] voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.</p>
<b>English</b>	Hereby, Graviton, Inc., declares that this Wideband Transmission System Radio is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
<b>German</b>	<p>Hiermit erklärt Graviton, Inc., dass sich dieser/diese/dieses Wideband Transmission System Radio in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet.</p> <p>Hiermit erklärt Graviton, Inc. die Übereinstimmung des Gerätes Wideband Data Transmission System Radio mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG.</p>

<b>Greek</b>	ME THN ΠΑΡΟΥΣΑ Graviton, Inc. ΔΗΛΩΝΕΙ ΟΤΙ Wideband Data Transmission System Radio ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.
<b>Finnish</b>	Graviton, Inc. vakuuttaa täten että Wideband Data Transmission System Radio tyypinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
<b>French</b>	<p>Par la présente Graviton, Inc. déclare que l'appareil Wideband Data Transmission System Radio est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.</p> <p>Par la présente, Graviton, Inc. déclare que ce Wideband Data Transmission System Radio est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables.</p>
<b>Italian</b>	Con la presente Graviton, Inc. dichiara che questo Wideband Data Transmission System Radio è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
<b>Portuguese</b>	Graviton, Inc. declara que este Wideband Data Transmission System Radio está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
<b>Spanish</b>	Por medio de la presente Graviton, Inc. declara que el Wideband Data Transmisión System Radio cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
<b>Swedish</b>	Härmed intygar Graviton, Inc. att denna Wideband Data Transmission System Radio står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

## Restrictions (English)

Austria: Use of plug-in radio devices only with host equipment and external antennas as declared by the manufacturer

France: Limited to 2446.5-2483.5 with some geographical constraints and e.i.r.p limited to -20dBW/MHz. Indoor: 10 mW eirp in 2400-2446 MHz. Inside private area: 2446-2483.5 MHz with 100 mW with authorization. Outside private area: the band is not opened.

Belgium: E.I.R.P limited to 10 mW.

Hungary: Processing gain: min 10 dB, Antenna type: integral or external with max gain 6 dBi.

Italy: None if used outside of own premises, general authorization is required.

Luxembourg: None System provider for third party traffic may require a telecommunications Act license

The Netherlands: 10 mW license free indoor and outdoor. 100 mW licenses free indoor only. 100 mW with license outdoor within 2451- 2471 MHz. Protection of existing use Government and ENG/OB.

United Kingdom: System provider for third party traffic may require a Wireless Telegraphy and/or Telecommunications Act License.

## Restricciones en español

Austria: Uso de dispositivos de radio enchufables solamente con el equipo de anfitrión y antenas externas según lo declarado por el fabricante.

Francia: Limitado a 2446,5-2483,5 con algunos contstraints y e.i.r.p geográficos limitados a -20dBW/ MHz.Indoor: eirp de 10 mW en 2400-2446 megaciclo. Área privada interior: 2446-2483,5 megaciclos con 100 mW con la autorización. Área privada exterior: la venda no se abre.

Bélgica: E.I.R.P limitado a 10 mW.

Hungría: Proceso de aumento: DB del minuto 10, tipo de la antena: integral o externo con dBi máximo del aumento 6.

Italia: No se requiere ninguno si está utilizada fuera de propias premisas, autorización general.

Luxemburgo: Ningunos abastecedor del sistema para el tráfico de los terceros pueden requerir una licencia del acto de telecomunicaciones los

Países Bajos: 10 de interior libres de la licencia del mW y al aire libre. 100 de interior libres de la licencia del mW solamente. 100 mW con la licencia al aire libre dentro de 2451- 2471 megaciclos. Protección del gobierno existente del uso y de ENG/OB.

Reino Unido: El abastecedor del sistema para el tráfico de los terceros puede requerir una telegrafía y/o una licencia sin hilos del acto de Telecommunications.

## Restrictions en français

L'Autriche: Utilisation des dispositifs par radio embrochables seulement avec l'équipement central et les antennes externes comme avoué par le fabricant.

France: Limité à 2446,5-2483,5 avec des certains constraints et e.i.r.p géographiques limités à -20dBW/MHz. Indoor: eirp de 10 mW dans 2400-2446 mégahertz. Secteur privé intérieur: 2446-2483,5 mégahertz avec 100 mW avec l'autorisation. Secteur privé extérieur: la bande n'est pas ouverte.

La Belgique: E.I.R.P limité à 10 mW.

La Hongrie: Traitement du gain: DB de la minute 10, type d'antenne: intégral ou externe avec le maximum du gain 6 dBi.

L'Italie: Aucun si utilisé en dehors de de propres lieux, autorisation générale n'est exigé.

Le Luxembourg: Aucun fournisseur de système pour le trafic de tiers peut ne pas exiger un permis de Loi de télécommunications

Les Hollandes: d'intérieur libres de permis de 10 mW et extérieurs. d'intérieur libres de permis de 100mW seulement. 100 mW avec le permis extérieur à moins de 2451- 2471 mégahertz. Protection de gouvernement existant d'utilisation et d'ENG/OB.

**Royaume Uni:** Le fournisseur de système pour le trafic de tiers peut exiger une télégraphie et/ou un permis sans fil de Loi de Telecommunications.

## Static Electricity, ESD, and your palmOne Wi-Fi Card

Electrostatic discharge (ESD) can cause damage to electronic devices if discharged into the device, so you should take steps to avoid such an occurrence.

### Description of ESD

Static electricity is an electrical charge caused by the buildup of excess electrons on the surface of a material. To most people, static electricity and ESD are nothing more than annoyances. For example, after walking over a carpet while scuffing your feet, building up electrons on your body, you may get a shock—the discharge event—when you touch a metal doorknob. This little shock discharges the built-up static electricity.

### ESD-susceptible equipment

Even a small amount of ESD can harm circuitry, so when working with electronic devices, take measures to help protect your electronic devices, including your palmOne™ handheld, from ESD harm. While palmOne has built protections against ESD into its products, ESD unfortunately exists and, unless neutralized, could build up to levels that could harm your equipment. Any electronic device that contains an external entry point

for plugging in anything from cables to docking stations is susceptible to entry of ESD. Devices that you carry with you, such as your handheld, build up ESD in a unique way because the static electricity that may have built up on your body is automatically passed to the device. Then, when the device is connected to another device such as a docking station, a discharge event can occur.

### **Precautions against ESD**

Make sure to discharge any built-up static electricity from yourself and your electronic devices before touching an electronic device or connecting one device to another. The recommendation from palmOne is that you take this precaution before connecting your handheld to your computer, placing the handheld in a cradle, or connecting it to any other device. You can do this in many ways, including the following:

- Ground yourself when you're holding your mobile device by simultaneously touching a metal surface that is at earth ground.
- For example, if your computer has a metal case and is plugged into a standard three-prong grounded outlet, touching the case should discharge the ESD on your body.
- Increase the relative humidity of your environment.
- Install ESD-specific prevention items, such as grounding mats.

### **Conditions that enhance ESD occurrences**

Conditions that can contribute to the buildup of static electricity in the environment include the following:

- Low relative humidity.
- Material type (The type of material gathering the charge. For example, synthetics are more prone to static buildup than natural fibers like cotton.)
- The rapidity with which you touch, connect or disconnect electronic devices.

While you should always take appropriate precautions to discharge static electricity, if you are in an environment where you notice ESD events you may want to take extra precautions to protect your electronic equipment against ESD.



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